Exhibit A
'tzlas01.sql'

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--   $Header: tzlas01.sql ...
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--
REMARK >>>> Set System Variables For Current SQLPlus Session <<<<
SET FEEDBACK 1
SET NUMWIDTH 10
SET PAGESIZE 24
SET LINESIZE 80
SET TRIMSPOOL ON
SET TAB OFF
SET DEFINE '^'
SET ECHO ON

CONNECT LBACSYS/LBACSYS

-- Create two SA policies
EXECUTE SA_SYSDBA.CREATE_POLICY('SA1','SA1_COL','ALL_CONTROL');
EXECUTE SA_SYSDBA.CREATE_POLICY('SA2','SA2_COL','NO_CONTROL');

-- Initialize PUBLIC labels for them
EXECUTE SA_LABELS.CREATE_LEVEL('SA1',0,'PUBLIC','PUBLIC Level');
EXECUTE SA_LABELS.CREATE_LEVEL('SA2',0,'PUBLIC','PUBLIC Level');

EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1',10,'public');
EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa2',10,'public');

-- Setup some labels for policy SA1
EXECUTE SA_LABELS.CREATE_LEVEL('sa1',10,'c','confidential');
EXECUTE SA_LABELS.CREATE_LEVEL('sa1',20,'s','SECRET');
EXECUTE SA_LABELS.CREATE_LEVEL('sa1',30,'ts','Top Secret');

EXECUTE SA_LABELS.CREATE_COMPARTMENT ('sa1', 5, 'A', 'ALPHA');
EXECUTE SA_LABELS.CREATE_COMPARTMENT ('sa1', 10, 'b', 'beta');

EXECUTE SA_LABELS.CREATE_GROUP ('sa1', 5, 'G1','group 1');
EXECUTE SA_LABELS.CREATE_GROUP ('sa1', 51, 'G2','group 2','G1');
EXECUTE SA_LABELS.CREATE_GROUP ('sa1', 52, 'G3','group 3','G1');

EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 200,'c');
EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 225,'c:b,a');
EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1',210,'c:a');
EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1',205,'c::g2');
EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 300,'s');
EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 310,'s:a');

-- Generate some labels
SELECT LABEL_TO_CHAR(TO_SA_LABEL('sa1','c:a:g1')) FROM DUAL;
SELECT LABEL_TO_CHAR(TO_SA_LABEL('sa1','s:a,b')) FROM DUAL;
SELECT LABEL_TO_CHAR(TO_SA_LABEL('sa1','public:a:g1')) FROM DUAL;

COL POLICY_NAME FORMAT A15
COL LABEL FORMAT A20
SELECT * FROM DBA_SA_LABELS;
```

```
col labelvalue format a20
col policy_name format a10
SELECT * from dba_sa_labels;

-- Set user labels
EXECUTE SA_USER_ADMIN.SET_LEVELS('sa1','scott','s','c');
EXECUTE SA_USER_ADMIN.SET_COMPARTMENTS('sa1','scott','a,b');
EXECUTE SA_USER_ADMIN.SET_GROUPS('sa1','scott','G1');
SELECT * FROM dba_sa_user_levels ORDER BY policy_name, user_name;
SELECT * FROM dba_sa_user_compartments ORDER BY policy_name, user_name;
SELECT * fROM dba_sa_user_groups ORDER BY policy_name, user_name;

-- Look at session labels
CONNECT scott/tiger

create or replace FUNCTION get_list (pol IN VARCHAR2)
RETURN VARCHAR2 IS
  test_list lbacsys.lbac_label_list;
begin
  test_list:=lbac_session.effective_labels(pol);
  RETURN label_list_to_named_char(test_list,'effective');
END;
/

select get_list('sa1') from dual;
select get_list('sa2') from dual;
```